Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-90-INF-XXXXX-X (R)

Laboratory and Equipment

Test lab	Viso LabSpion - serial: 2007279764 sensor serial: 0690170290 - Test lab
Spectrometer Manufacturer and Model	LabSpion – Type C, horizontal
Measurement serial number	PH-GVA-2026.May.27-8936-VO
Measurement date	2026-05-27

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	5.00°
Input Power	128.9 W

Electrical Data

Input Power	128.9 W
Input Voltage	381.4 V DC
Input Current	0.34 A
Power Factor	1.00

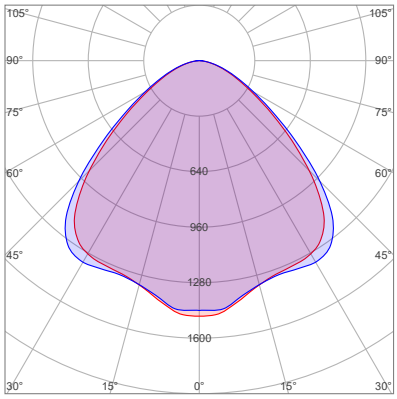
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-90-INF-XXXXX-X (R)
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	106 mm 0 mm x 430 mm

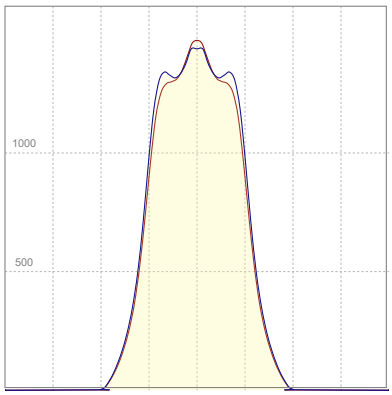
Main Light Measurement Results

Output – Total Lumen	3503 - 0.2486% / 99.75%
Efficiency	27.17 lm/W
Peak Intensity	1471
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	97.1°
Beam Angle (FWHM) | C90/270	100.5°
Field Angle (10%) | C0/180	141.5°Unit: 0-100% of peak intensity
Optical Power	18003 mW
Peak Wavelength	633 nm
Dominant Wavelength	622 nm

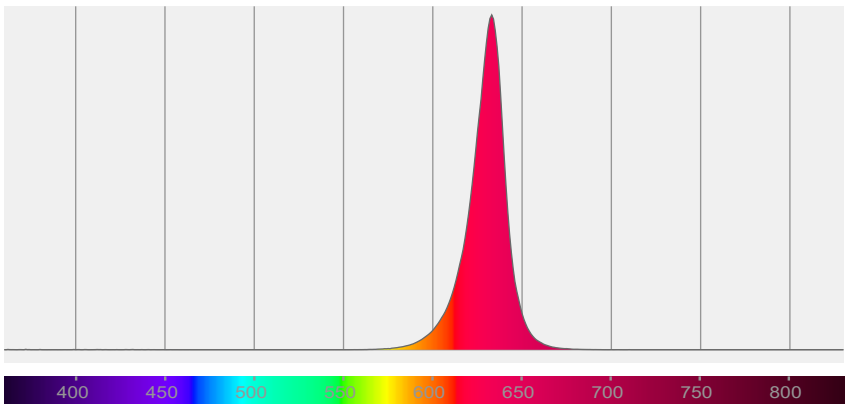
Polar Light Distribution Diagram
Unit: 0-100% of peak intensity



Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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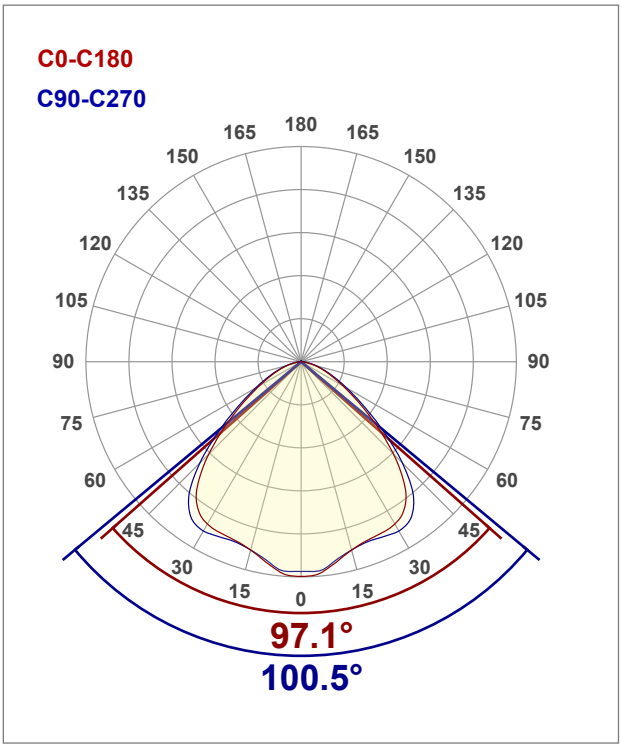
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	3503 lm
Lumen Up% / Down%	0.2486% / 99.75%
Peak Intensity	1471 cd
Beam Angle (50%-FWHM)	99.9°

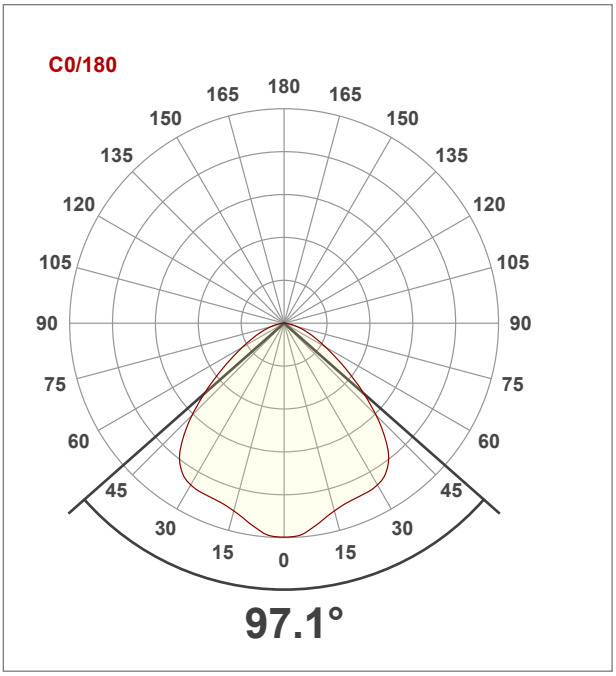
EU Ecodesign parameters

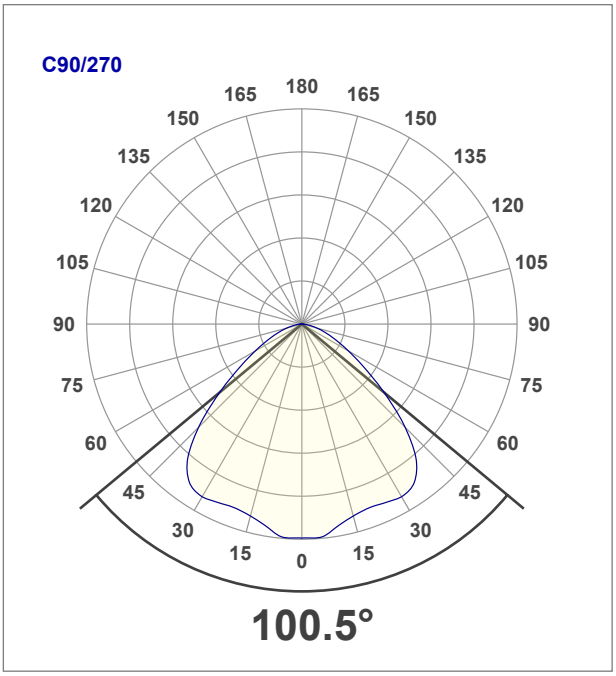
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	3113 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	88.87%
In 90° cone	65.83%

Angular Distribution





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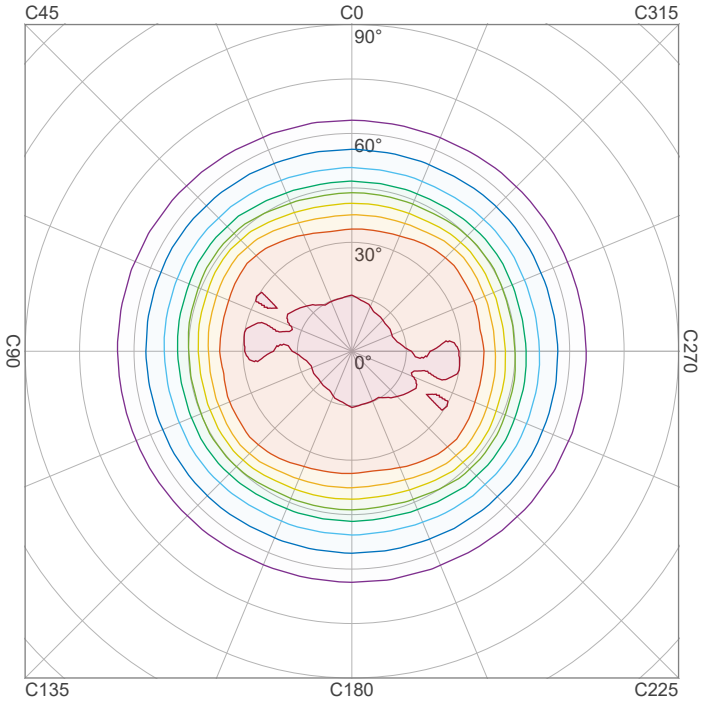
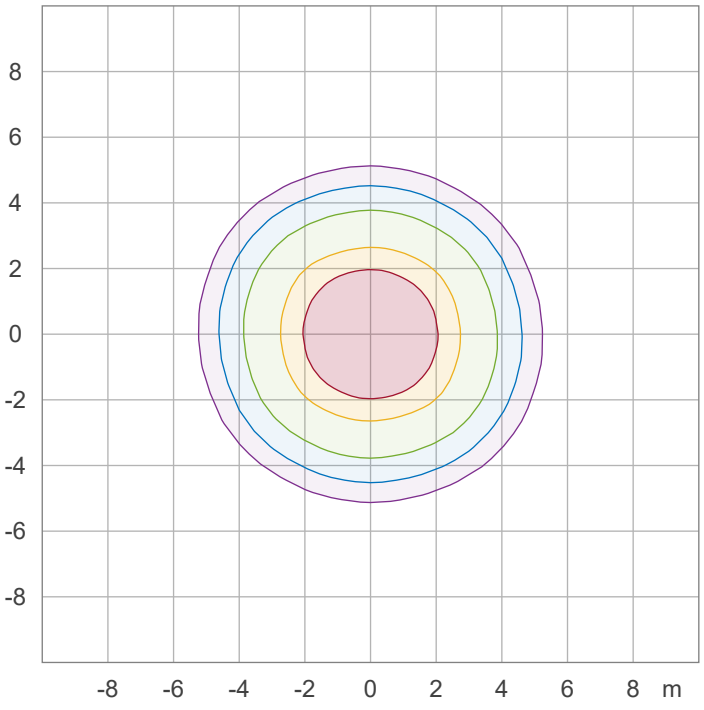
Iso-intensity Diagram (Iso-candela)



90 %	1324.3 cd
80 %	1177.1 cd
70 %	1030.0 cd
60 %	882.8 cd
50 %	735.7 cd
40 %	588.6 cd
30 %	441.4 cd
20 %	294.3 cd
10 %	147.1 cd

Peak intensity: 1471.4 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	81.7 lx
30.0 %	49 lx
10.0 %	16.3 lx
5.0 %	8.17 lx
3.0 %	4.9 lx

Peak illuminance: 163 lx
Mounting height: 3 m
Number of c-planes: 36

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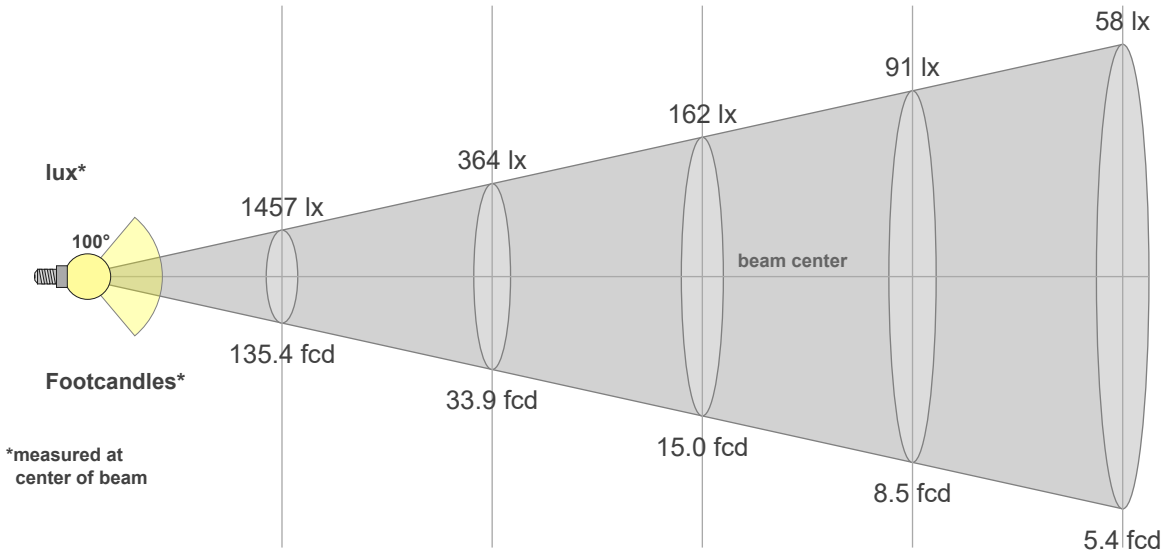
Beam details

Distance (meter)	1 m	2 m	3 m	4 m	5 m
Distance (feet)	3.3 ft	6.6 ft	9.8 ft	13.1 ft	16.4 ft



Beam width (meter)	2.4 m	4.8 m	7.1 m	9.5 m	11.9 m
Beam width (feet)	7.8 ft	15.6 ft	23.4 ft	31.2 ft	39 ft

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Intensity details

Beam intensities from 1 – 20 m

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	m
3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6	ft
1457	364	162	91	58	40	30	23	18	15	12	10	9	7	6	6	5	4	4	4	lux
135.4	33.9	15	8.5	5.4	3.8	2.8	2.1	1.7	1.4	1.1	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.3	fc

Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
1457	1453	1396	1341	1310	1298	1282	1227	1098	896	674	481	335	232	157	98	52	18	1	1	cd
100%	100%	96%	92%	90%	89%	88%	84%	75%	61%	46%	33%	23%	16%	11%	7%	4%	1%	0%	0%	of 0°val

Intensities in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
1457	1438	1382	1338	1318	1327	1340	1308	1193	981	732	519	364	252	170	107	57	21	2	2	cd
100%	99%	95%	92%	90%	91%	92%	90%	82%	67%	50%	36%	25%	17%	12%	7%	4%	1%	0%	0%	of 0°val

Intensities in 180° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
1457	1453	1396	1341	1310	1298	1282	1227	1098	896	674	481	335	232	157	98	52	18	1	1	cd
100%	100%	96%	92%	90%	89%	88%	84%	75%	61%	46%	33%	23%	16%	11%	7%	4%	1%	0%	0%	of 0°val

Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
1457	1438	1382	1338	1318	1327	1340	1308	1193	981	732	519	364	252	170	107	57	21	2	2	cd
100%	99%	95%	92%	90%	91%	92%	90%	82%	67%	50%	36%	25%	17%	12%	7%	4%	1%	0%	0%	of 0°val

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Power details

Input power	
Frequency of input power	0.0 Hz
Power feed to light source	128.9 W
RMS Input voltage feed V,RMS	381.4 V
RMS Input current feed I,RMS	0.34 A
Volt-Amp or apparent power = V,RMS*I,RMS	128.9 VA
Displacement factor of AC power feed	1.00
Power factor of AC current feed	1.00
Total harmonic distortion of the current	0%
Total harmonic distortion of the voltage	0%

Input power curve

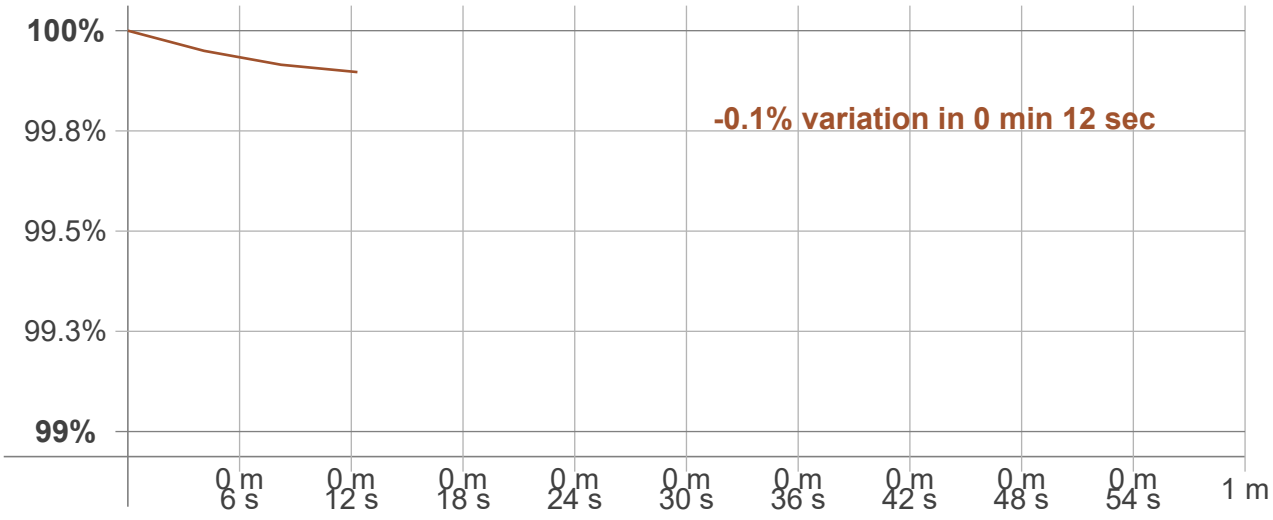
Efficiency

Radiated power efficiency	13.97
Lumen efficiency	27.17 lm/W

Stabilization details

Warmup Conditions		Color Temperature Change	
Stable period	15 min	CCT start	n/a
Stable change max	2%	CCT shift	n/a
Minimum time	15 min	CCT end	n/a
Warmup Result		**Output Change**	
Total warmup time	Not completed	Output start	3505 lm
Warmup variation	-0.1033%	Output change	-2.4203 lm
		Output end	3503 lm

Stabilization Curve



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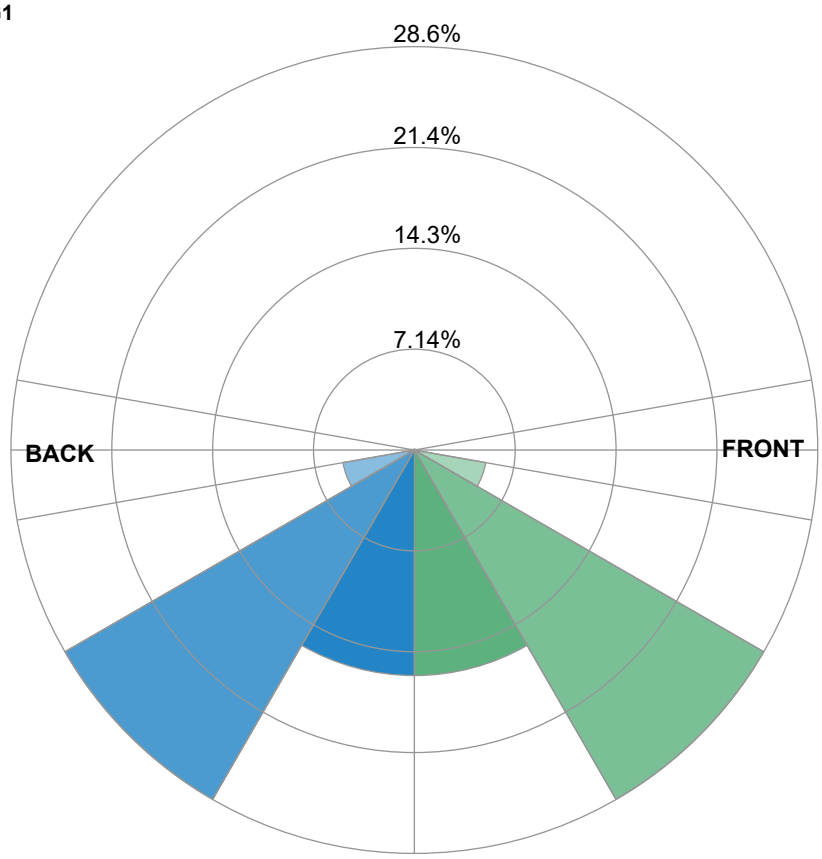
FL200-G2-XXX-RGBW3083-OM-90-INF-XXXXX-X (R)

IESNA TM-15-07 LUMINIARE CLASSIFICATION SYSTEM FOR OUTDOOR LUMINAIRES

Forward Light			
Low (0-30°)	559	lm	16.0%
Medium (30-60°)	1000	lm	28.6%
High (60-80°)	180	lm	5.13%
Very High (80-90°)	12.2	lm	0.347%
Back Light			
Low (0-30°)	559	lm	16.0%
Medium (30-60°)	1000	lm	28.6%
High (60-80°)	180	lm	5.13%
Very High (80-90°)	12.2	lm	0.347%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	3503	lm	100%

BUG RATING B2 U0 G1